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**Notice of Allowability**

Application No.

10/660,800

Examiner

Robert A. Hopkins

Applicant(s)

JIN ET AL.

Art Unit

1724

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed 9-12-2003.
2. ☒ The allowed claim(s) is/are 1-3.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)-**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 9-12-03, 8-23-04
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

## **DETAILED ACTION**

### ***Allowable Subject Matter***

Claims 1-3 are allowed.

The following is an examiner's statement of reasons for allowance:

Claim 1 recites "a dust-removing ring disposed around an outer surface of the filter and moving along an axial direction; a manipulation unit disposed under the filter to approach to, and retreat from the filter; a connection member interposed between the manipulation unit and the dust-removing ring, for moving the dust-removing ring in association with the approaching and retreating movements of the manipulation unit; an elastic spring interposed between the filter and the manipulation unit, for urging the manipulation unit to retreat from the filter; and an operating bar upwardly protruding from a bottom of the dust collecting receptacle, for pressing the manipulation unit towards the filter". Oh(6811584) teaches a dust removing ring(410) disposed around an outer surface of a grill for a cyclone vacuum cleaner, wherein the dust removing ring moves along an axial direction. However, Oh fails to teach a filter connected to a discharge port and disposed inside a dust collecting receptacle, a manipulation unit disposed under the filter to approach to, and retreat from the filter; a connection member interposed between the manipulation unit and the dust-removing ring, for moving the dust-removing ring in association with the approaching and retreating movements of the manipulation unit; an elastic spring interposed between the filter and the manipulation unit, for urging the manipulation unit to retreat from the filter; and an operating bar upwardly protruding from a bottom of the dust collecting receptacle, for

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pressing the manipulation unit towards the filter. It would not have been obvious to provide a manipulation unit disposed under the filter to approach to, and retreat from the filter; a connection member interposed between the manipulation unit and the dust-removing ring, for moving the dust-removing ring in association with the approaching and retreating movements of the manipulation unit; an elastic spring interposed between the filter and the manipulation unit, for urging the manipulation unit to retreat from the filter; and an operating bar upwardly protruding from a bottom of the dust collecting receptacle, for pressing the manipulation unit towards the filter because Oh does not suggest such a modification. Claims 2 and 3 depend on claim 1 and hence are also allowed.

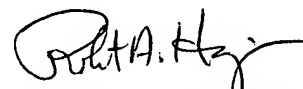
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Hopkins whose telephone number is 571-272-1159. The examiner can normally be reached on Monday-Friday, 7am-4pm, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on 571-272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rah  
January 30, 2006

  
ROBERT A. HOPKINS  
PRIMARY EXAMINER

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